

### **OpenCV Installation Guide**

This is a guide for the installation of OpenCV (Python version) in Windows and Linux systems.

To be able to install OpenCV-Python the system needs to have Python installed and a package manager such as PIP. This document will guide you through the installation of these as well.

### For Windows

1. Start by checking if you already have Python installed. Open the Command Line by searching for cmd in the Run dialog (♣ + R) and run the command:

```
python --version
```

If Python is already installed it will generate a message with the available Python version.

If Python is not installed, follow the steps in <a href="https://medium.com/colearning-lounge/how-to-download-install-python-on-windows-2021-44a707994013">https://medium.com/colearning-lounge/how-to-download-install-python-on-windows-2021-44a707994013</a>.

2. Now let's check if PIP is installed. PIP is a package management system for libraries written in Python. Once again, run the following command in the Command Line:

```
python -m pip --version
```

If PIP is already installed the command will show where it is installed.

If PIP is not yet installed, run:

```
python -m ensurepip --upgrade
```

You can also follow the alternative steps described in:

https://pip.pypa.io/en/stable/installation/

3. Finally, having PIP installed, OpenCV can simply be installed by running:

```
pip install opency-python
```

You can check if it was correctly installed by running:



## **OpenCV Installation Guide**

```
python
>>>import cv2
>>>print(cv2.__version__)
```

#### For Linux

1. Start by checking if you already have Python installed. Open the Terminal (Ctrl+Alt+T) and run the command:

```
python --version
```

If Python is already installed it will generate a message with the available Python version.

If Python is not installed, run these commands:

```
sudo apt update
sudo apt install python3.xx
```

Replace the xx with the desired version, for example python3.9.

2. Now let's check if PIP is installed. PIP is a package management system for libraries written in Python. Once again, run the following command in the Terminal:

```
pip --version
```

If PIP is already installed the command will show where it is installed.

If PIP is not yet installed, run:

```
python -m ensurepip --upgrade
```

You can also run:

```
sudo apt install python3-pip
```

or follow the alternative steps described in:

https://pip.pypa.io/en/stable/installation/



# **OpenCV Installation Guide**

3. Finally, having PIP installed, OpenCV can be simply installed by running:

```
pip install opencv-python
```

You can check if it was correctly installed by running:

```
python
>>>import cv2
>>>print(cv2.__version__)
```